${\bf Example Data Summary Sheet for Wet Detention Basin Design}$

(Note: Example only - seeminimum design criteria in DNR technical standard 1001)

DesignElement	DesignData	
Siteassessmentdata:(seeattachedmaps)		
Contributingdrainageareatobasin(subwat ershedA)	120acres	
Distancetonearestprivatewell(includingoff -sitewells)	>100feet	
Distancetomunicipalwell(includingoff -sitewells)	>1200feet	
Wellheadprotectionareainvolved?	No	
Groundslopeatsiteofproposedbasin	average3%	
Anybu riedoroverheadutilitiesinthearea?	No	
Proposedoutfallconveyancesystem/discharge(w/distances)	35ft.toCTH"U"Roadditch 1000ft.towetland	
Anydownstreamroadsorotherstructures?(describe)	Yes –36"cmproadculvert	
Floodplain,shoreland orwetlands?	No	
Soilinvestigationdata(seeattachedmap&soillogs):	<u> </u>	
Numberofsoilinvestigationscompleted	3(inbasinarea)	
Doelevationsoftestholesextend3ft.belowproposedbottom?	Yes(seemap)	
Averagesoiltextureatpondbottomeleva tion(USDA)	Clayloam	
Distancefrompondbottomtobedrock	>5feet	
Distancefrompondbottomtoseasonalwatertable	Pondbottom2belowmottling Nowaterobservedintestholes	
Generalbasindesigndata(seeattacheddetaileddrawings):	·	
Permanentp oolsurfacearea	1.5acres	
Designpermanentpoolwatersurfaceelevation	elev.900.0	
Topofbermelevation(aftersettling)andwidth	elev.905.0/10feetwide	
Length/width(dimensions/ratio)	445ft.(L)x145ft.(W)=3:1	
Safetyshelfdesign(len gth,grade,max.depth)	10ft.@10%slope/1.5'deepest	
Ave.waterdepth(minussafetyshelf/sediment)	5ft.(incenter)	
Sedimentforebaysize&depth	.16acres(13%poolsize)/5feet	
Sedimentstoragedepth&designmaintenance	2ft.depthforforebay& pool 15yearmaintenanceschedule	

DesignBasinInflow,Outflow&StorageData (seeattachedhydrographsanddetaildrawings)

(seemone and ar ographism and arms)					
InflowPeak/Volume	Maximum OutflowRate	Max.Water Elevation	StorageVolume atMax.Elev. (aboveperm.pool)	Outflow Control Structures*	
1-yr./24hr. (volume)	.7cfs (34hr.drawdown)	901.3ft.	2acrefeet	#1	
24.3cfs (Post2 -yr./24hr.peak)	11cfs	902.0ft.	3.1acrefeet	#1and#2	
72cfs (Post10 -yr./24hr.peak)	35cfs	903.0ft.	4.5acrefeet	#3	
171cfs (Post100 -yr./24hr.peak)	143cfs	904.0ft.	6.0acrefeet	#3and#4	

* The controlling elements are summarized below (See attached detaild rawing of outlets tructure):

-flowlineelev.@900.0(1.3ft.max #1=6inchorificeinwaterlevelcontrolweirplate

#2=2footwiderectangularweir -flowlineelev.@901.3(.7ft.hydraulichead)

#3=30inchdiametersmoothwallpvcpipe -flowlineelev.@900.0(3.0ft.max.hydraulichead)

#4=30footwideearthen/grassemergency spillway –flowlineelev.@903.0(1.0ft.max.depth)